

EAST Search History

Updated Search
10/657,523

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6326809").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/06 22:59
L2	1166	architectural adj state	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:05
L3	70	L2 same (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:18
L4	369862	detect\$3 near3 (error\$5 or fault\$3 or problem or malfunction or fail\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:07
L5	19	3 and L4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:07
L6	3698	(lead\$3 or trail\$3) adj thread	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:08
L7	50	synchroniz\$4 same 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:09
L8	2	5 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:16

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L9	114	2 and (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:38
L10	33	9 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:19
L11	5	10 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:19
L12	5	11 and synchroniz\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:36
L13	214	((lead\$3 or primary) adj thread) same ((trail\$3 or secondary or fowing) adj thread)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:38
L14	1	13 same (checkpoint\$3 or check-point\$3) same validat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:39
L15	2	13 and (checkpoint\$3 or check-point\$3) and validat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:39
L16	556	(714/13).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:43

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L17	965	(714/2).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:42
L18	985	(714/15).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:42
L19	1881	(714/38).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:42
L20	232	(714/16).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:42
L21	1	(L16 or L17 or L18 or L19 or L20) and 7 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:44
L22	570	(712/218).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:43
L23	0	22 and 7 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:44
S1	509	(714/13).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 16:36

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S2	922	(714/2).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 14:48
S3	935	(714/15).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 14:49
S4	1713	(714/38).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:41
S5	220	(714/16).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 15:01
S6	69	(reinhardt-steven\$ or mukherjee-shubhendu\$ or emer-joel\$).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 15:10
S7	4882	hardware same (error\$5 or fault\$3 or problem or malfunction or fail\$4) same recover\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:16
S8	8445	multi-thread\$4 or (multi adj thread\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 15:20
S9	6	S7 same S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 16:13

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S10	0	S9 same (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:05
S11	49	S7 and S8 and (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:11
S12	3632	(lead\$3 or trail\$3) adj thread	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 16:13
S13	3	S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 16:13
S14	8	((("6058491") or ("6317821") or ("6519730") or ("20010034854"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/26 17:03
S15	1065	architectural adj state	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:03
S16	45	non-deterministic adj event	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:11
S17	4	S15 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:11

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S18	4	S17 and (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:33
S19	46856	(recover\$3 or restor\$3 or recaptur\$3 or re-execut\$3) near3 state	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:14
S20	13	S19 same S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:14
S21	13	S20 and (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:34
S22	351935	detect\$3 near3 (error\$5 or fault\$3 or problem or malfunction or fail\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:17
S23	13	S21 and S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:32
S24	16	(lead\$3 or trail\$3) adj thread adj execut\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/06 23:08
S25	127	validat\$3 near3 (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:33

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S26	1	S24 same S25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:34
S27	2	S24 and S25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:34
S28	3	S24 and (checkpoint\$3 or check-point\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:35
S29	13	S24 and synchroniz\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/26 17:35



2/6/07



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Terms used

hardware and **recovery** and **multi thread** and **leading thread** and **trailing thread** and **checkpoint**

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81 [A survey of rollback-recovery protocols in message-passing systems](#)



E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson

 September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3

Publisher: ACM Press

Full text available: pdf(549.68 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into *checkpoint-based* and *log-based*. *Checkpoint-based* protocols rely solely on checkpointing for system state restoration. Checkpointing can be coordinated, uncoordinated, or communication-induced. *Log-based* protocols combine checkpointing with logging of nondeterministic events, encoded in tuples call ...

Keywords: message logging, rollback-recovery

82 [Threads: Balancing register pressure and context-switching delays in ASTI systems](#)



Siddhartha Shivshankar, Sunil Vangara, Alexander G. Dean

 September 2005 **Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems CASES '05**

Publisher: ACM Press

Full text available: pdf(261.60 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper makes two contributions to Asynchronous Software Thread Integration (ASTI). First, it presents methods to calculate worst-case secondary thread performance statically. This will enable real-time performance guarantees for the system in future work. Second, it improves the run-time performance of integrated threads by partitioning the register file, allowing faster coroutine calls. Determining the ideal partitioning of the register file is non-trivial if the registers are heterogeneous ...

Keywords: asynchronous software thread integration, fine-grain concurrency, hardware to software migration, software-implemented-communication protocols

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